

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/728,720A

DATE: 10/26/2001

TIME: 13:08:57

Input Set : A:\Stanfor1.app

Output Set: N:\CRF3\10262001\I728720A.raw

ENTERED

3 <110> APPLICANT: Fount, Steven K.H.
4 Hadlock, Kenneth G.
6 <120> TITLE OF INVENTION: Prevention and Treatment of HCV Infection Employing
7 Antibodies that Inhibit the Interaction of HCV Virions
8 with Their Receptor.
10 <130> FILE REFERENCE: 2002850-0009
12 <140> CURRENT APPLICATION NUMBER: 09/728,720A
13 <141> CURRENT FILING DATE: 2000-12-01
15 <160> NUMBER OF SEQ ID NOS: 35
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 160
21 <212> TYPE: DNA
22 <213> ORGANISM: Hepatitis C Virus
24 <400> SEQUENCE: 1
25 ctcaactgga ttcaccaaag tgtgctggagc gcctccttgt gtcacgagag gggcgggcaa 60
26 caacacccctg cactgccccca ctgattgctt ccgcaagcat ccgacgcca catactctcg 120
27 gtgctgctcc ggtccctgga tcacacccag gtgcctggtc 160
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 160
32 <212> TYPE: DNA
33 <213> ORGANISM: Hepatitis C Virus
35 <400> SEQUENCE: 2
36 ctcaactgga ttcaccaaag tgtgctggagc gcccccttgt gtcacgagag gggcgggcaa 60
37 caacacccctg cgtgccccca ctgattgttt ccgcaagcat ccggaagcca cgtactctcg 120
38 gtgctgctcc ggtccctgga ttacgcccag gtgcctggtc 160
41 <210> SEQ ID NO: 3
42 <211> LENGTH: 160
43 <212> TYPE: DNA
44 <213> ORGANISM: Bovine Pancreatic Ribonuclease A
46 <400> SEQUENCE: 3
47 tagtactggg ttcactaaga cgtgctggagg ccccccttgt aacatcgggg gggcgggtaa 60
48 ccgacacctg atctgccccca cggactgctt ccggaagcac ccgaggcta cttacacaaa 120
49 atgtggtctg gggccctggt tgacacctag gtgcctagta 160
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 160
54 <212> TYPE: DNA
55 <213> ORGANISM: T7 Bacteriophage
57 <400> SEQUENCE: 4
58 tggcacaggg ttcaccaaga cgtgtggggc cccccatgt aacatcgggg gggcgggcaa 60
59 taacaccttg acttgccccca cggactgttt ccggaagcac ccgaggcca cttacaccaa 120
60 atgtggttcg gggccctggc tgacacctag gtgcatagtt 160
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 166
65 <212> TYPE: DNA
66 <213> ORGANISM: Bacterial Protein
68 <400> SEQUENCE: 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/728,720A

DATE: 10/26/2001

TIME: 13:08:57

Input Set : A:\Stanfor1.app

Output Set: N:\CRF3\10262001\I728720A.raw

```

69 ctccactggc tacaccaaga cttgcggcgc accaccctgc cgcattagag ctgacttcaa 60
70 tgccagcatg gacttggtgt gccccacgga ctgttttagg aagcatcctg ataccaccta 120
71 catcaaagtgt ggcctctgggc cctggctcac gccaaagggtgc ctgatac 166
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 167
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
82 <400> SEQUENCE: 6
83 ctccactggtt tcacaaaaac ttgcggcgca ccaccctgcc gcacagagc tgactttaat 60
84 gccagcacgg acctgctgtg cccccacgga ctgtttcagga agcatcctga agccacttac 120
85 atcaaagtgt gctctggggc cccctgtga cgccaaagtg cctaata 167
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 166
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
96 <400> SEQUENCE: 7
97 cgggactggg ttactaaga catgcgggtgc accaccttgc cgcattagga aagactacaa 60
98 cagcactatc gatttattgt gccccacaga ctgttttagg aagcaccag atgctaccta 120
99 tottaagtgt ggagcagggc cttgggttaac tcccagggtgc ctggta 166
102 <210> SEQ ID NO: 8
103 <211> LENGTH: 166
104 <212> TYPE: DNA
105 <213> ORGANISM: Hepatitis C Virus
107 <400> SEQUENCE: 8
108 tgggactggg ttactaaga catgcgggtgc accaccttgc cgcattagga gggactgcaa 60
109 cggaaacctc gacctattgt gccccacaga ctgtttcaga aagcaccag atactaccta 120
110 ccttaagtgt ggagcagggc cttgggtgac ccccaaagtc atggta 166
113 <210> SEQ ID NO: 9
114 <211> LENGTH: 160
115 <212> TYPE: DNA
116 <213> ORGANISM: Hepatitis C Virus
118 <400> SEQUENCE: 9
119 ctcaactgga ttcacaaag tgtgcggagc gccccctgt gtcacggag gggcgggcaa 60
120 caacaccttg cgtgccccca ctgattgttt ccgcaagcat ccggaagcca cgtactctcg 120
121 gtgcggctcc ggtccctgga ttacgccag gtgcctggtc 160
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 160
126 <212> TYPE: DNA
127 <213> ORGANISM: Hepatitis C Virus
129 <400> SEQUENCE: 10
130 tggcacaggg ttcaccaaga cgtgtggggc cccccatgt aacatcggg gggtcggcaa 60
131 taacaccttg acttgcccc cggactgttt ccggaagcac cccgaggcca cttacaccaa 120
132 atgtggttcg ggccttggc tgacacctag gtgcatagtt 160
135 <210> SEQ ID NO: 11
136 <211> LENGTH: 164

```

RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/728,720A

TIME: 13:08:57

Input Set : A:\Stanfor1.app

Output Set: N:\CRF3\10262001\I728720A.raw

```

137 <212> TYPE: DNA
138 <213> ORGANISM: Hepatitis C Virus
140 <400> SEQUENCE: 11
141 ctccactggt tcaccaaacc ttgcggcgca ccaccctgcc gcatcagagc tgactttaat 60
142 gccagcacgg acctgctgtg ccccaaggac tgtttcagga agcatcctga agccacttac 120
143 atcaaagtgt gctctggggc cctgtgacgc caaagtgcct gata 164
146 <210> SEQ ID NO: 12
147 <211> LENGTH: 167
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
154 <400> SEQUENCE: 12
155 tgggactggg ttactaaga catgcggtgc accaccttgc cgcattagga gggactgcaa 60
156 cggaaccctc gacctattgt gcccacaga ctgtttcaga aagcacccag atactaccta 120
157 ccttaagtgt ggagcggggg ccttggttga ccccaaatg catggta 167
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 8
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Flag Epitope
168 <400> SEQUENCE: 13
169 Asp Tyr Lys Asp Asp Asp Asp Lys
170 1 5
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 10
175 <212> TYPE: PRT
176 <213> ORGANISM: T7 Bacteriophage
178 <400> SEQUENCE: 14
179 Met Ala Ser Met Thr Gly Gly Gln Met Gly
180 1 5 10
183 <210> SEQ ID NO: 15
184 <211> LENGTH: 15
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence:S-Tag Sequence
191 <400> SEQUENCE: 15
192 Lys Glu Thr Ala Ala Ala Lys Phe Glu Arg Gln His Met Asp Ser
193 1 5 10 15
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 20
198 <212> TYPE: DNA
199 <213> ORGANISM: Hepatitis C Virus
201 <400> SEQUENCE: 16
202 cgcgcacraa gtagsgyact 20
205 <210> SEQ ID NO: 17
206 <211> LENGTH: 21

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/728,720A

DATE: 10/26/2001

TIME: 13:08:57

Input Set : A:\Stanfor1.app

Output Set: N:\CRF3\10262001\I728720A.raw

207 <212> TYPE: DNA
 208 <213> ORGANISM: Hepatitis C Virus
 210 <220> FEATURE:
 211 <221> NAME/KEY: variation
 212 <222> LOCATION: (9)
 213 <223> OTHER INFORMATION: n is inosine (i)
 215 <220> FEATURE:
 216 <221> NAME/KEY: modified_base
 217 <222> LOCATION: (9)
 218 <223> OTHER INFORMATION: i
 220 <400> SEQUENCE: 17
 221 cgcatggcgt gggayatgat g 21
 224 <210> SEQ ID NO: 18
 225 <211> LENGTH: 32
 226 <212> TYPE: DNA
 227 <213> ORGANISM: Hepatitis C Virus
 229 <400> SEQUENCE: 18
 230 cgaagcttca tatgatcgct ggtgctcact gg 32
 233 <210> SEQ ID NO: 19
 234 <211> LENGTH: 38
 235 <212> TYPE: DNA
 236 <213> ORGANISM: Hepatitis C Virus
 238 <400> SEQUENCE: 19
 239 gcggatccct gcagctacaa actggcttga agaatcca 38
 242 <210> SEQ ID NO: 20
 243 <211> LENGTH: 34
 244 <212> TYPE: DNA
 245 <213> ORGANISM: Hepatitis C Virus
 247 <400> SEQUENCE: 20
 248 cgcatatgga gctcgcgggg gccactggg gagt 34
 251 <210> SEQ ID NO: 21
 252 <211> LENGTH: 38
 253 <212> TYPE: DNA
 254 <213> ORGANISM: Hepatitis C Virus
 256 <400> SEQUENCE: 21
 257 gctctagact gcagctatat gccagcctgg agcaccat 38
 260 <210> SEQ ID NO: 22
 261 <211> LENGTH: 34
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Hepatitis C Virus
 265 <400> SEQUENCE: 22
 266 cgctcgagcc atggttggcg gggctcattg gggc 34
 269 <210> SEQ ID NO: 23
 270 <211> LENGTH: 40
 271 <212> TYPE: DNA
 272 <213> ORGANISM: Hepatitis C Virus
 274 <400> SEQUENCE: 23
 275 tcgaattcgg atcctacaaa gcacctttta ggagataagc 40
 278 <210> SEQ ID NO: 24

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/728,720A

DATE: 10/26/2001

TIME: 13:08:57

Input Set : A:\Stanfor1.app

Output Set: N:\CRF3\10262001\I728720A.raw

```

279 <211> LENGTH: 34
280 <212> TYPE: DNA
281 <213> ORGANISM: Hepatitis C Virus
283 <400> SEQUENCE: 24
284 cgctcgagcc atggttttcg gcggccattg ggtg          34
287 <210> SEQ ID NO: 25
288 <211> LENGTH: 40
289 <212> TYPE: DNA
290 <213> ORGANISM: Hepatitis C Virus
292 <400> SEQUENCE: 25
293 tcgaattcgg atcctacaga gacgctttaa ggaggtaggc      40
296 <210> SEQ ID NO: 26
297 <211> LENGTH: 23
298 <212> TYPE: DNA
299 <213> ORGANISM: Hepatitis C Virus
301 <220> FEATURE:
302 <221> NAME/KEY: modified_base
303 <222> LOCATION: (15)
304 <223> OTHER INFORMATION: i
306 <400> SEQUENCE: 26
OK> 307 tggttcgggt gywcntggat gaa          23
310 <210> SEQ ID NO: 27
311 <211> LENGTH: 26
312 <212> TYPE: DNA
313 <213> ORGANISM: Hepatitis C Virus
315 <220> FEATURE:
316 <221> NAME/KEY: modified_base
317 <222> LOCATION: (9)
318 <223> OTHER INFORMATION: i
320 <220> FEATURE:
321 <221> NAME/KEY: modified_base
322 <222> LOCATION: (18)
323 <223> OTHER INFORMATION: i
OK> 325 <400> SEQUENCE: 27
326 taatgccana rcckrtangg gtagtc          26
329 <210> SEQ ID NO: 28
330 <211> LENGTH: 379
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence:Pdisplay Vector
336      Sequence with E2 insert of Sflb-E2
338 <400> SEQUENCE: 28
339 Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
340   1           5           10           15
342 Gly Ser Thr Gly Asp Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Ala
343           20           25           30
345 Gln Pro Ala Arg Ser Thr Thr Tyr Thr Thr Gly Gly Ala Ala Ser Arg
346           35           40           45

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/728,720A

DATE: 10/26/2001

TIME: 13:08:58

Input Set : A:\Stanfor1.app

Output Set: N:\CRF3\10262001\I728720A.raw

L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27